Feb. 28, 1933. V. B. WATRAL ET AL 1,899,429

SHADE FRAME CONSTRUCTION

Filed Nov. 17, 1932

Fig. 1.

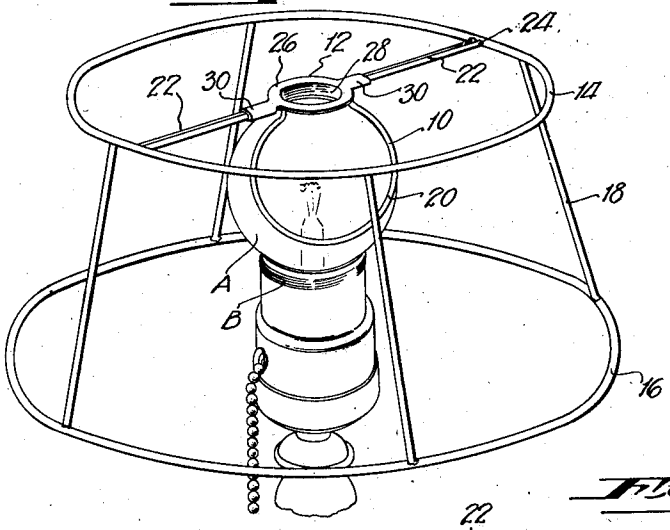


Fig. 2.

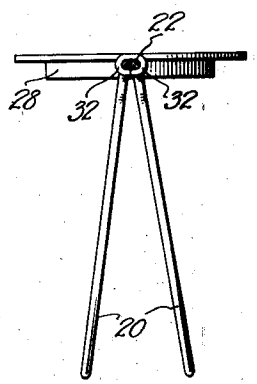


Fig. 4.

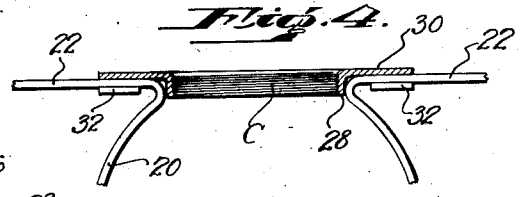


Fig. 3.

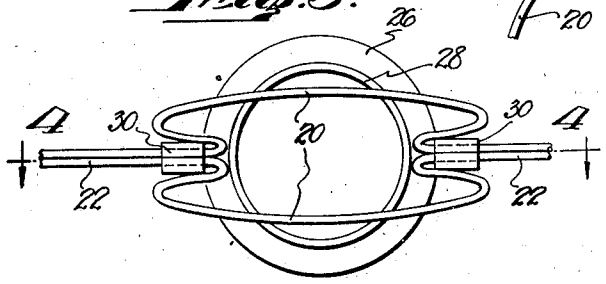


Fig. 7.

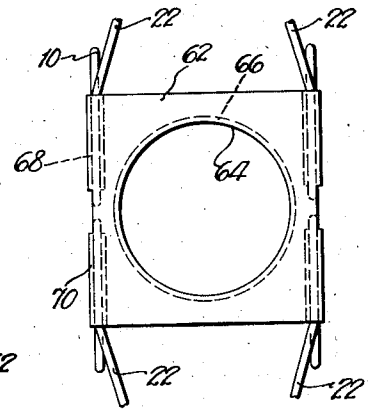


Fig. 5.

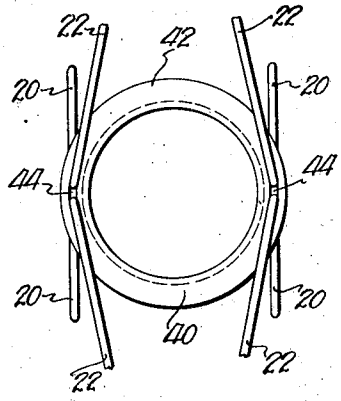
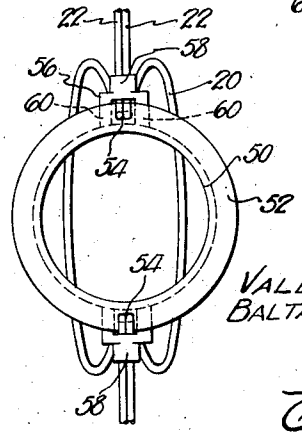


Fig. 6.



WITNESS:

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UNITED STATES PATENT OFFICE

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SHADE FRAME CONSTRUCTION

Application filed November 17, 1932. Serial No. 643,002.

The present invention relates to lamp shades and more particularly it pertains to new and useful improvements in the construction of frames therefor.

It is one of the objects of the present invention to provide a lamp shade which is capable of attachment either directly to an electric lamp or an electric fixture independently of the lamp.

Lamp shades when supported by an electric lamp are known as clamp shades and when attached to an electric fixture they are known as bridge shades and it is another object of the present invention so to construct a lamp shade that it may be used in either manner thereby providing a combined clamp and bridge shade.

A further object of the invention resides in a novel construction whereby the shade will be rigidly supported from either the clamp or bridge support.

With the above and other objects in view reference will be had to the accompanying drawing in which the invention is illustrated in various forms and in which,

Figure 1 is a perspective view of a lamp shade frame constructed in accordance with the present invention,

Figure 2 is a detail sectional view of a portion of the frame,

Figure 3 is a bottom plan view of a portion thereof,

Figure 4 is a fragmentary sectional view taken on the line 4—4 of Figure 3,

Figure 5 is a fragmentary top plan view illustrating a slightly modified form of the invention,

Figure 6 is a top plan view of a still further modified form of the invention, and;

Figure 7 is a fragmentary top plan view of a still further modified form of the invention.

Referring to the drawing by reference characters and particularly to the construction illustrated in Figures 1 to 4 inclusive, the reference numeral 10 designates a clamp attachment and 12 designates a bridge attachment. The lamp shade frame in the present illustration is of circular form and comprises two members 14 and 16 held in spaced relation by braces 18, all of which is of conventional construction.

The clamp member 10 consists of two substantially circular lamp embracing members 20. These members 20 are secured in the frame by means of extensions 22 which are rigidly attached to the frame as at 24 by welding, soldering or in any other manner.

The bridge member 12 is formed from sheet metal and comprises a body portion 26 from which projects a flange 28 which is internally threaded for engagement with an external thread with which the conventional lamp socket is formed. The bridge attachment 12 is preferably circular in form and has extensions 30 projecting therefrom at diametrically opposite points. These extensions 30 are so constructed that they may be bent around the extensions 22 of the clamp attachment as best illustrated at 32 in Figure 2. By this construction the bridge attachment 12 is attached to the clamp attachment 10 and in order to insure rigid attachment to the bridge attachment 12 the extensions 30 may, if desired, be welded, soldered or in other ways rigidly attached to the extensions 22.

The clamp attachment being rigidly attached as at 24 to the member 14 as heretofore described and the bridge attachment being rigidly attached as heretofore described, the two attachments will not only be rigidly carried by the lamp shade frame, but will be rigidly attached to one another.

When the device is employed as illustrated in Figure 1, the members 20 are merely spread and engaged with the outer face of an electric lamp such as A. When, however, the shade is to be used in combination with the socket of the lamp the thread indicated B in Figure 1 and with which the lamp socket of conventional form is provided is engaged with the thread C upon the interior of the flange 28 thus supporting the shade from the socket.

In that form of the invention illustrated in Figure 5, the bridge attachment is designated 40. It is flanged as at 42 and said flange is provided at diametrically opposite points with openings 44. The clamp attachment is

formed by the loops 20 in the manner heretofore described but in this construction the extensions 22 are spread at the bridge fixture as indicated. These extensions 22 extend in opposite directions in pairs and the extensions of each pair converge and are secured to the lamp shade in the same manner as heretofore described. The extensions 22 may or may not be secured to the flange 42 of the bridge fixture 40 where they pass through the openings 44 thereof.

In this form of the invention the use is the same as heretofore described.

In that form of the invention illustrated in Figure 6 the bridge attachment is designated 50 and is flanged as at 52, the same being similar to the bridge attachment illustrated in Figure 5. In this form of the invention the bridge attachment is provided at diametrically opposite points with openings 54 through which the extensions 22 pass. This form of the invention differs, however, from that form illustrated in Figure 5 in that the extensions 22 pass through the openings 54 in parallelism and in contact with one another instead of being spread as in Figure 5. To provide for rigid attachment of the clamp attachment to the bridge attachment, clips 56 are provided. These clips 56 comprise a portion 58 which is adapted to wrap or fold around the extensions 22 and which may be secured to the extensions 22 by welding or soldering as desired. Projecting from the body portion of these clips 56 there are fingers or like members 60 which underlie the flange 52 and may be rigidly secured thereto by welding, soldering or in any desired manner. It is to be understood that the ends of the extensions 22 are secured to the frame as heretofore described, after which the members 20 of the clamp attachment may be spread to embrace a lamp as heretofore described.

In the form of the invention illustrated in Figure 7 the bridge attachment is of rectangular form. It comprises a body portion 62 having a circular opening 64 which is provided with a depending flange 66 threaded as heretofore described. In this form of the invention the extensions 22 of the clamp attachment 10 extend parallel with opposite side edges of the bridge attachment 62 as illustrated at 68 in the drawing. The clamp attachment and bridge attachment are secured together by bending of portions 70 of the opposite side edges of the body portion 62 around the extensions 22. This action may, if desired, be welded or soldered in order to provide rigidity.

As in that form of the invention illustrated in Figure 5, the extensions 22 in this last described form of the invention extend in opposite directions in pairs and the extensions of each pair converge and are rigidly secured to the frame member 14 of the frame.

In each of the forms of the invention the operation is the same, that is, the shade may be attached to a lamp by engagement of the clamp attachment with the lamp or by engagement of the thread of the bridge attachment with the external thread with which conventional lamp sockets are provided.

From the foregoing it will be apparent that the present invention provides a new and improved combination clamp and bridge lamp shade in which the lamp shade may be attached and supported either from an electric lamp or from an electric lamp socket without necessitating change in the shade structure.

While the invention has been herein illustrated in its preferred forms it is to be understood that it may be practiced in other forms without departing from the spirit thereof and that the invention is not to be limited to the specific details of construction herein illustrated.

Having thus described the invention, what is claimed as new and what it is desired to secure by Letters Patent of the United States, is:

1. In a lamp shade in combination, a shade frame, a clamp attachment rigidly carried by the shade frame and a bridge attachment rigidly carried by the clamp attachment.

2. In a lamp shade, a shade frame, a clamp attachment rigidly secured to the shade frame, a bridge attachment carried by the clamp attachment and means for rigidly securing the bridge attachment to the clamp attachment.

3. In a lamp shade, a shade frame, a clamp attachment rigidly secured to the shade frame, a bridge attachment carried by the clamp attachment and means for rigidly securing the bridge attachment to the clamp attachment, said last mentioned means comprising integral extensions upon the bridge attachment.

4. In a lamp shade, a shade frame, a clamp attachment rigidly secured to the shade frame, a bridge attachment carried by the clamp attachment and means for rigidly securing the bridge attachment to the clamp attachment, said last mentioned means comprising integral extensions upon the bridge attachment and embracing a portion of the clamp attachment.

5. A lamp shade including in combination a clamp attachment and a bridge attachment, said clamp attachment including a plurality of strands of wire bent to form electric lamp engagement means, said bridge attachment being formed from sheet metal and having electric socket engaging means and means for rigidly supporting said bridge attachment upon the clamp attachment.

6. A lamp shade including in combination a clamp attachment and a bridge attachment, said clamp attachment including a plurality

of strands of wire bent to form electric lamp engagement means, said bridge attachment being formed from sheet metal and having electric socket engaging means and means for rigidly supporting said bridge attachment upon the clamp attachment, said means comprising extensions projected from the bridge attachment and surrounding portions of the clamp attachment.

7. A device of the character described comprising in combination a bridge attachment formed of sheet metal, a flange projecting from the body of said bridge attachment and having a plurality of diametrically opposed openings and a clamp attachment, said clamp attachment being formed from wire and having portions thereof passed through the openings in the bridge attachment substantially as described.

8. A device of the character described comprising in combination a bridge attachment formed of sheet metal, a flange projecting from the body of said bridge attachment and having a plurality of diametrically opposed openings and a clamp attachment, said clamp attachment being formed from wire and having portions thereof passed through the openings in the bridge attachment substantially as described, and means carried by the clamp attachment and engaging the bridge attachment for connecting the bridge attachment and the clamp attachment together to provide a rigid structure.

9. In a lamp shade construction, a lamp shade supporting member, a clamp attachment and a bridge attachment, both of said attachments being permanently carried by the lamp shade supporting member.

Signed at New York, New York, this 15th day of November, 1932.

VALENTINE B. WATRAL.
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